

FORM PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY.DOCKET NO. 06111P USA	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Welp, et al.	
		FILING DATE	GROUP
(37 CFR 1.98(b))			

10/05/97
S. PRO
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01/21/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		1	4	2	8	9	2					
		4	5	5	2	7	4	8	C. T. Berglin, et al.	423	588	5/14/1982
		5	0	6	3	0	4	3	E. A. Bengtsson, et al.	423	588	9/6/1983
		5	4	7	8	5	3	5	G. Fierz, et al.	422/205	422/198	2/23/1990
		5	6	8	8	0	4	7	A. Signer, et al.	366	337	6/3/1994
		5	7	6	3	6	8	7	J. Morisaki, et al.	568/927	568/924	8/7/1996
		5	7	7	9	9	9	5	H. Witt, et al.	422/215	422/224	12/10/1996
		6	0	0	5	1	4	3	R. M. Machado, et al.	564/423	564/420	9/25/1995
		6	2	4	2	6	4	9	H. Beckhaus, et al.	564/422	564/416	8/7/1998

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
		DE	I	9	8	4	4	9	0	1	1998	Abstract - German Patent	—	—	Q
				0	2	3	3	6	4	2	2002	EPO	—	—	X
		WO	9	8	5	5	2	1	6	1998	PCT	—	—	X	
		WO	0	0	3	5	8	5	2	2000	PCT	—	—	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Grosz-Röll, F., J. Bättig and F. Moser, of Koch Engineering Company, Inc. entitled, "Gas/Liquid Mass Transfer with Static Mixing Units", Fourth European Conference on Mixing, April 27-29, 1982 pp 225-236
		Heiszwolf, Johan J., et al. "Hydrodynamic Aspects of the Monolith Loop Reactor", Chemical Engineering Science 56 (2001) 805-812
		Patrick, Robert H., et al. "Residence Time Distribution in Three-Phase Monolith Reactor" AIChE Journal, March 1995, Vol. 41, No. 3, pp 649-657
		Kawakami, Koei, et al. "Performance of a Honeycomb Monolith Bioreactor in a Gas-Liquid-Solid Three-Phase System", Ind. Eng. Chem. Res. 1989, 28, 394-400
		Hatzlantoniou, Vasilios and Andersson, Bengt, "The Segmented Two-Phase Flow Monolithic Catalyst Reactor. An Alternative for Liquid-Phase Hydrogenations", Ind. Eng. Chem. Fundam. 1981, 23, 82-88
		Hatzlantoniou, Vasilios, Andersson, Bengt, and Schoon, Nils-Herman, "Mass Transfer and Selectivity in Liquid-Phase Hydrogenation fo Nitro Compounds in a Monolithic Catalyst Reactor with Segmented Gas-Liquid Flow", Ind. Eng. Chem. Process Des. Dev., 1988, 25, 964-970
		Irandoost, Said and Andersson, Bengt; Department of Chemical Reaction Engineering, Chalmers University of Technology, S-412 96 Gothenburg, Sweden and Bengtsson, Erik and Siverstrom; EKA Nobel AB, S-445 01 Surte, Sweden, "Scaling Up a Monolithic Catalyst Reactor with Two-Phase Flow", Ind. Eng. Chem. Res., 1989, 28, 1489-1493
		Irandoost, Said and Andersson, Bengt, "Mass Transfer and Liquid-Phase Reactions in a Segmented Two-Phase Flow Monolithic Catalyst Reactor", Chemical Engineering Science, Vol. 43, No. 8, pp. 1983-1988

EXAMINER

DATE CONSIDERED

Aug 2009

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/053,787
				Filing Date	January 21, 2002
				First Named Inventor	Keith Allen Welp, et al.
				Art Unit	1744
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	06111P USA

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (⁶ known)	MM-DD-YYYY			
AM	DE 198 58 974 A		2000-06-21	Daimler Chrysler AG		
AM	EP 0 995 489 A		2000-04-26	Praxair Technology Inc.		✓
	XP002264241 (Abstract)		1991-09-07	Sinion Soviet-Italian Petrochem Co.		✓
AM	EP 0 638 357 A		1995-02-15	Hoechst AG		
AM	JP 55 047127 A (Abstract)		1980-06-11	Kuromatsu Tokumitsu		✓

Examiner Signature J. J. A. Date Considered and 2009

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

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